

<b>INFORMATION DISCLOSURE CITATION</b>		ATTY. DOCKET NO. 21501-721	SERIAL NO. <i>9/811,365</i> <i>Unassigned</i>			
PTO-1449		APR 09 2001	APPLICANT Sorin			
		FILING DATE 03/16/01	GROUP <i>Not Assigned 2379</i>			
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<b>FOREIGN PATENT DOCUMENTS</b>						
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
<i>BuH</i>	J.N. Blake, B.Y. Kim, H.E. Engan, and H.J. Shaw, "Analysis of intermodal coupling in a two-mode fiber with periodic microbends", Opt. Lett., vol. 12, 281-283 (1987).					
<i>BuH</i>	B.Y. Kim, J.N. Blake, H.E. Engan, and H.J. Shaw, "Acousto-optic frequency-shifting in two-mode optical fibers", OFS '86, Tokyo, Japan (October 8-10, 1986).					
<i>BuH</i>	H.E. Engan, B.Y. Kim, J.N. Blake, and H.J. Shaw, "Propagation and optical interaction of guided acoustic waves in two-mode optical fibers", Journal of Lightwave Technology, vol. 6, 428-436 (1988).					
<i>BuH</i>	J.O. Askautrud and H.E. Engan, "Fiberoptic frequency shifter with no mode change using cascaded acousto-optic interaction regions", Opt. Lett., vol. 15, 649-651 (1990).					
<i>BuH</i>	H.E. Engan, T. Myrteit, and J.O. Askautrud, "All-fiber acousto-optic frequency shifter excited by focused surface acoustic waves", Opt. Lett., vol. 16, 24-26 (1991).					
<i>BuH</i>	H.E. Engan, D.Östling, P.O. Kval, and J.O. Askautrud, "Wideband operation of horns for excitation of acoustic modes in optical fibers", Proc. OFS(10), Glasgow, 11th - 13th Oct. 1994, 568-571 (SPIE Proc. 2360).					
<i>BuH</i>	D. Östling and H.E. Engan, "Narrow-band acousto-optic tunable filtering in a two-mode fiber", Opt. Lett., vol. 20, 1247-1249 (1995)					
<i>BuH</i>	H.E. Engan, "Analysis of polarization mode coupling by acoustic torsional waves in optical fibers", J. Opt. Soc. Am. A., vol. 13, 112 - 118 (1996).					
<i>BuH</i>	D. Östling and H.E. Engan: "Spectral flattening by an all-fiber acousto-optic tunable filter", 1995 IEEE Ultrasonics Symposium, 837 - 840.					
<i>BuH</i>	D. Östling and H.E. Engan: "Broadband spatial mode conversion by chirped fiber bending", Opt. Lett., vol. 21, 192 - 194 (1996).					
<i>BuH</i>	D. Östling and H.E. Engan: "Polarization-selective mode coupling in two-mode Hi-Bi fibers", Journal of Lightwave Technology, vol. 15, 312-320 (1997).					
<i>BuH</i>	D. Östling, B. Langli, and H.E. Engan: "Intermodal beat lengths in birefringent two-mode fibers", Opt. Lett., vol. 21, 1553 - 1555 (1996).					
EXAMINER	<i>B. Blakey</i>		DATE CONSIDERED	<i>3/5/03</i>		

EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPI P 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

<b>INFORMATION DISCLOSURE CITATION</b>		ATTY. DOCKET NO. 21501-721	SERIAL NO. Unassigned 09X11365			
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
Burk	H.E. Engan, "Acoustic torsional waves used for coupling between optical polarization modes in optical fibers", 1996 IEEE Ultrasonics Symposium, 799-802					
Burk	D. Östling and H.E. Engan: "Acousto-optic tunable filters in two-mode fibers", Optical Fiber Technology, vol. 3, 177 - 183 (1997).					
Burk	B. Langli, P. G. Sinha and K. Blotekjær, "Acousto-Optic Mode Coupling of Partially Coherent Light in Two-Mode Fibers", Optical Review, Vol.4, No.1A, pp.121-129, Jan./Feb. 1997.					
Burk	T.A. Birks, P.S.J. Russell and C.N. Pannell, "Low power acousto-optic device based on a tapered single-mode fiber", IEEE Photonics Technol. Lett., vol. 6, p. 725 – 727 (1994).					
Burk	M. Berwick and D.A. Jackson, "Coaxial optical-fiber frequency shifter", Opt. Lett., vol. 17, 270-272 (1992)					
Burk	J. Blake and P. Siemsen, "Practical compact high performance fiber-optic frequency shifter", Proc. 9 <sup>th</sup> OFS Conference, Firenze, pp. 301 – 304 (1993).					
Burk	W. P. Risk, G. S. Kino and H. J. Shaw, "Fiber-optic frequency shifter using a surface acoustic wave incident at an oblique angle", Optics Letters, Vol. 11, No. 2, pp 115-117, 1986.					
Burk	W. P. Risk, R. C. Youngquist, G. S. Kino and H. J. Shaw, "Acousto-optic frequency shifting in birefringent fiber", Optics Letters, Vol. 9, No. 7, pp 309-311, 1984.					
Burk	W. P. Risk and G. S. Kino, "Acousto-optic fiber-optic frequency shifter using periodic contact with a copropagating surface acoustic wave", Optics Letters, Vol. 11, No. 5, pp 336-338, 1986.					
Burk	W. P. Risk and G. S. Kino, "Acousto-optic polarization coupler and intensity modulator for birefringent fiber", Optics Letters, Vol. 11, No. 1, pp 48-50, 1986.					
Burk	W.P. Risk, G.S. Kino and B.T. Khuri-Yakub, "Tunable optical filter in fiber-optic form", Opt. Lett., vol. 11, p. 578 – 580 (1986).					
Burk	S.F. Su, R. Olshansky, D A. Smith and J.E. Baran, "Flattening of erbium-doped fibre amplifier gain spectrum using an acousto-optic tunable filter", Electron. Lett., vol. 29, p. 477 – 478 (1993).					
Burk	Yijiang Chen, "Acousto-optic frequency shifter using coaxial fibers", Optical and Quant. Elect., vol. 21, pp. 491 – 498 (1989).					
EXAMINER	B. Healy		DATE CONSIDERED	3/5/03		

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		FILING DATE 03/16/01	GROUP Not Assigned <i>2874</i>			
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
<i>Burk</i>	J. Ji, D. Uttam and B. Culshaw, "Acousto-optic frequency shifting in ordinary single-mode fibre", Electronics Letters, Vol. 22, No. 21, pp 1141-1142, 1986.					
<i>Burk</i>	C. N. Pannell, R. P. Tatam, J. D. C. Jones and D. A. Jackson, "Optical frequency shifter using linearly birefringent monomode fibre", Electronics Letters, Vol. 23, No. 16, pp 847-848, 1987.					
<i>Burk</i>	K. Nosu, H. F. Taylor, S. C. Rashleigh and J. F. Weller, "Acousto-optic phase modulator and frequency shifter for single-mode fibers", Ultrasonics Symposium, pp 476-481, 1983.					
EXAMINER	<i>B. Healy</i>		DATE CONSIDERED	<i>3/5/03</i>		

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	APPLICANT Wayne V. Sorin	
	FILING DATE 3/16/01	GROUP <del>Unassigned</del> 2 3 29

**U.S. PATENT DOCUMENTS**

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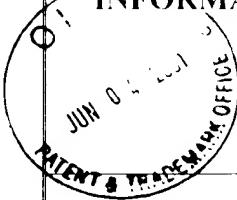
<i>BMT</i>	Sorin, W.V. et al, "Phase Velocity Measurements using Prism Output for Single and Few-Mode Fibers", <i>Optics Letters</i> , Feb. 1986, Vol. 11, No. 2, pp. 106-108
<i>BMT</i>	Blake, B.Y. et al, "Fiber-Optic Modal Coupler using Periodic Microbending", <i>Optics Letters</i> , Mar. 1986, Vol. 11, No. 3, pp. 177-179
<i>BMT</i>	Kim, B.Y. et al., "All-Fiber Acousto-Optic Frequency Shifter", <i>Optics Letters</i> , June 1986, Vol. 11, No. 6, pp. 389-391
<i>BMT</i>	Sorin, W.R. et al, "Highly Selective Evanescent Modal Filter for Two-Mode Optical Fibers", <i>Optics Letters</i> , Sept. 1986, Vol. 11, No. 9, pp. 581-583
<i>BMT</i>	Blake, J.N. et al, "Analysis of Intermodal Coupling in a Two-Mode Fiber with Periodic Microbends", <i>Optics Letters</i> , April 1987, Vol. 12, No. 4, pp. 281-283
<i>BMT</i>	Kim, B.Y. et al, "Use of Highly Elliptical Core Fibers for Two-Mode Fiber Devices", <i>Optics Letters</i> , Sept 1987, Vol. 12, No. 9, pp. 729-731
<i>BMT</i>	Blake, J.N., et al, "Strain Effects on Highly Elliptical Core Two-Mode Fibers", <i>Optics Letters</i> , Sept. 1987, Vol. 12, No. 9, pp. 732-734
<i>BMT</i>	Engan, H.E. et al, "Propagation and Optical Interaction of Guided Acoustic Waves in Two-Mode Optical Fibers, <i>IEEE Journal of Lightwave Technology</i> , Mar. 1988, Vol. 6, No. 3, pp. 428-436
<i>BMT</i>	Park, H.G. et al, "Intermodal Coupler using Permanently Photo-Induced Grating in Two-Mode Optical Fibre", <i>Electronic Letters</i> , June 8, 1989, Vol. 25, No. 12, pp. 797-799
<i>BMT</i>	Park, H.G. et al, "All-Optical Intermodl Switch using Periodic Coupling in a Two-Mode Waveguide", <i>Optics Letters</i> , August 15, 1989, Vol. 14, No. 16, pp. 877-879
<i>BMT</i>	Huang, S.Y. et al, "Perturbation Effects on Mode Propagation in Highly Elliptical Core Two-Mode Fibers", <i>IEEE Journal of Lightwave Technology</i> , Jan. 1990, Vol. 8, No. 1, pp. 23-33

EXAMINER *R. Healy* DATE CONSIDERED *3/5/03*

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<b>INFORMATION DISCLOSURE O'NEILL CITATION</b> 		ATTY. DOCKET NO.		SERIAL NO.			
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		APPLICANT Wayne V. Sorin					
		FILING DATE 3/16/01		GROUP <u>Unassigned</u> 2874			
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<i>S.M.H.</i>	Koh, Y.W. et al, "Strain Effects on Two Mode Fiber Gratings", <i>Optics Letters</i> , Apr. 1, 1993, Vol. 18, No. 7, pp. 497-499						
<i>B.M.H.</i>	Yun, S H. et al, "All-fiber Tunable Filter and Laser based on Two-mode Fiber", <i>Optics Letters</i> , Jan. 1996, Vol. 21, No. 1, pp. 27-29						
<i>B.M.H.</i>	Yun, S H. et al, "Suppression of Polarization Dependence in a Two-Mode Fiber Acousto-Optic Device", <i>Optics Letters</i> , June 15, 1996, Vol. 21, No. 12, pp. 908-910						
<i>B.M.H.</i>	Kim, H.S. et al, "Longitudinal Mode Control in Few-Mode Erbium-Doped Fiber Lasers", <i>Optics Letters</i> , Aug. 1, 1996, Vol. 21, No. 15, pp. 1144-1146						
<i>B.M.H.</i>	Jeon, M.Y. et al, "An Electronically Wavelength-Tunable Mode-Locked Fiber Laser Using an All-Fiber Acoustooptic Tunable Filter", <i>IEEE Photonics Technology Letters</i> , Dec. 1996, Vol. 8, No. 12, pp. 1618-1620						
<i>B.M.H.</i>	Kim, H.S. et al, "All-fiber acousto-optic tunable notch filter with electronically controllable profile", <i>Optics Letters</i> , Oct. 1, 1997, Vol. 22, No. 19, pp. 1476-1478						
<i>B.M.H.</i>	Yun, S H. et al, "Wavelength-Swept Fiber Laser with Frequency Shifted Feedback and Reasonantly Swept Intra-Cavity Acoustooptic Tunable Filter", <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , Aug. 1997, Vol. 3, No. 4, pp. 1087-1096 (Invited Paper)						
<i>B.M.H.</i>	Jeon, M.Y. et al, "Harmonically mode-locked fiber laser with an acousto-optic modulator in a Sagnac loop and Faraday rotating mirror cavity", <i>Optics Communications</i> , Apr. 15, 1998, Vol. 149, pp. 312-316						
<i>B.M.H.</i>	Kim, H.S. et al, "Actively gain-flattened erbium-doped fiber amplifier over 35nm using all-fiber acoustooptic tunable filters", <i>IEEE Photonics Technology Letters</i> , June 1998, Vol. 10, No. 6, pp. 790-792						
<i>B.M.H.</i>	Hwang, I.K. et al, "Long-period fiber gratings based on periodic microbends", <i>Optics Letters</i> , Sept. 15, 1999, Vol. 24, No. 18, pp. 1263-1265						
<i>B.M.H.</i>	Yun, S H. et al, "Dynamic Erbium-Doped Fiber Amplifier Based on Active Gain Flattening with Fiber Acoustooptic Tunable Filters", <i>IEEE Photonics Technology Letters</i> , Oct. 1999, Vol. 11, No. 10, pp. 1229-1231						
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<i>BH</i>	Blake, J.N. et al, "All-Fiber Acousto-Optic Frequency Shifter using Two-Mode Fiber", <i>Proceedings of the SPIE Fiber Optic Gyros</i> , Sept. 1986, Vol. 719, pp. 92-100						
<i>BH</i>	Blake, B.Y. et al, "Acousto-Optic Frequency Shifting in Two-Mode Optical Fibers", <i>OFS '86, Tokyo, Japan</i> , Oct. 8-10, 1986, pp. 159-162						
<i>BH</i>	Engan, H.E. et al, "Optical Frequency Shifting in Two-Mode Optical Fibers by Flexural Acoustic Waves", <i>IEEE 1986 Ultrasonics Symposium</i> , Nov. 17-19, 1986, pp. 435-438						
<i>BH</i>	Huang, S.Y. et al, "Mode Characteristics of Highly Elliptical Core Two-Mode Fibers under Perturbations", <i>OFS '88, New Orleans, Louisiana</i> , Jan. 27-29, 1988, pp. 14-17						
<i>BH</i>	Kim, B.Y. et al, "Few-Mode Fiber Devices", <i>OFS '88, New Orleans, Louisiana</i> , Jan. 27-29, 1988, pp. 146-149, (Invited Paper)						
<i>BH</i>	Kim, B.Y. et al, "Fiber-Optic Device Research at Stanford University", <i>Proceedings SPIE, Fiber Optic and Laser Sensors, Boston Massachusetts</i> , Sept. 5-7, 1989, Vol. 1169, pp. 10-15, (Invited Paper)						
<i>BH</i>	Kim, B.Y. et al, "Few-Mode Fiber Devices", <i>ICOESE '90, Beijing, China</i> , Aug. 1990, Vol. 2, pp. 146-149, (Invited Paper)						
<i>BH</i>	Koh, Y.W. et al, "Mode Coupling Fiber Gratings for Fiber Optic Devices", <i>OFS-9, Firenze, Italia</i> , May 4-6, 1993, pp. 35-38						
<i>BH</i>	Yun, S.H. et al, "All-Fiber Acousto-Optic Tunable Filter", <i>OFC '95, San Diego, California</i> , Feb. 26-Mar. 3, 1995, pp. 186-187						
<i>BH</i>	Yun, S.H. et al, "Electronically Tunable Fiber Laser Using All-Fiber Acousto-Optic Tunable Filter", <i>IOOC '95 (10th International Conference on Integrated Optics and Optical Fibre Communication) Hong Kong</i> , June 26-30, 1995, pp. 22-23						
<i>BH</i>	Yun, S.H. et al, "Polarization Dependence of Two-Mode Fiber-Acousto-Optic Device", <i>OFS-11, Sapporo, Hokkaido, Japan</i> , May 21-24, 1996, pp. 478-481						
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<i>BmH</i>	Jeon, M.Y. et al, "Harmonically Mode-Locked Fiber Using an All-Fiber Acousto-Optic Tunable Filter", <i>OFC '97, Dallas, Texas</i> , Feb. 16-22, 1997, pp. 166-167					
<i>BmH</i>	Yun, S.H. et al, "Wavelength-swept Fiber Laser with Frequency-Shifted Feedback", <i>OFC '97, Dallas, Texas</i> , Feb. 16, 1997, pp. 30-31					
<i>BmH</i>	Kim, H.S. et al, "Single-Mode-Fiber Acousto-Optic Tunable Notch Filter", <i>2nd Optoelectronics &amp; Communications Conference '97</i> , July 8-11, 1997, pp. 226-227					
<i>BmH</i>	Yun, S.H. et al, "Fiber grating sensor array demodulation using wavelength-swept fiber laser", <i>OFS-12, Williamsburg, Virginia</i> , Oct. 28-31, 1997					
<i>BmH</i>	Hwang, I.K. et al, "All-fiber nonreciprocal comb filter with wavelength tunability", <i>OFC '98, ThQ5, San Jose, USA</i> , Feb. 22-27, 1998, pp. 336-338					
<i>BmH</i>	Kim, H.S. et al, "Dynamic gain equalization of erbium-doped filter amplifier with all-fiber-acousto-optic tunable filters", <i>OFC '98, WG4, San Jose, USA</i> , Feb. 22-27, 1998, pp. 136-138					
<i>BmH</i>	Koh, Y.W. et al, "Broadband Polarization-Insensitive All-Fiber Acousto-Optic Modulator", <i>OFC '98, WM50, San Jose, USA</i> , Feb. 22-27, Vol. 2, pp. 239-240					
<i>BmH</i>	Oh, K. et al., "Characterization of elliptic core fiber acousto-optic tunable filters operated in the single mode and the multi-mode range", <i>OFC '98, WM59, San Jose, USA</i> , Vol. 2, pp. 250-251					
<i>BmH</i>	Yun, S.H. et al, "Generation of self-starting mode-locked pulses in wavelength-swept fiber lasers", <i>CLEO/IQEC '98, San Francisco, USA</i> , May 3-8, 1998					
<i>BmH</i>	Hwang, I.K. et al, "Long-Period Gratings based on Arch-induced Microbends", <i>OECC '98, Chiba, Japan</i> , July 12-16, 1998, pp. 144-145					
<i>BmH</i>	Kim, B.Y. et al, "Fiber Based Acousto-Optic Filters", <i>OFC/IOOC '99, San Diego, USA</i> , Feb. 21-26, 1999, pp. 199-201, (Invited Paper)					
<i>BmH</i>	Hwang, I.K. et al, "Profile-controlled long-period fiber gratings based on microbends", <i>OFC/IOOC '99, San Diego, California</i> , Feb. 21-26, 1999, pp. 177-179					
EXAMINER	<i>S. Healy</i>		DATE CONSIDERED	<i>3/15/03</i>		

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<i>BuH</i>	Park, H.S. et al, "All-fiber add-drop multiplexer using a tilted fiber Bragg grating and mode-selective couplers", <i>OFC/IOOC '99, San Diego, California, USA</i> , Feb. 21-26, 1999, TuH6, pp. 91-93						
<i>BuH</i>	Kim, B.Y., "Acousto-optic Components for WDM Applications", <i>IEEE/LEOS Summer Topical Meetings, San Diego, USA</i> , July 26-28, 1999, pp. 47-48, (Invited Paper)						
<i>BuH</i>	Kim, B.Y., "Acousto-optic filters for fiber systems", <i>ICO-128, San Francisco, USA</i> , Aug. 2-6, 1999, pp. 92-93, (Invited Paper)						
<i>BuH</i>	Song, K.Y. et al, "High Performance Fused-type Mode Selective Couple for Two-mode Fiber Devices", <i>OFC 2000, Baltimore, USA</i> , Mar. 5-10, 2000, Vol. 37, TuB5						
<i>BuH</i>	Risk, W.P. et al, "Acousto-optic frequency shifting in birefringent fiber", <i>Optics Letters</i> , 1984, Vol. 9, No. 7, pp. 309-311						
<i>BuH</i>	Birks, T.A. et al, "Four-port fiber frequency shifter with a null tapre coupler", <i>Optics Letters</i> , 1994, Vol. 19, No. 23, pp. 1964-1966						
<i>BuH</i>	Berwick, M. et al, "Coaxial optical-fiber frequency shifter", <i>Optics Letters</i> , Feb. 15, 1992, Vol. 17, No. 4, pp. 270-272						
<i>BuH</i>	Lisboa, O. et al, "New configuration for an optical fiber acousto-optic frequency shifter", <i>Proc. Soc. Photo-Opt. Instrum. Eng.</i> , Mar. 13-14, 1990, Vol. 1267, pp. 17-23						
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EXAMINER	<i>3/16/01</i>	DATE CONSIDERED	<i>3/5/03</i>				

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<b>U.S. PATENT DOCUMENTS</b>						
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
<i>Gmt</i>	Kakarantzas, G. et al, "High strain-induced wavelength tunability in tapered fibre acousto-optic filters", <i>Electronics Letters</i> , July 6, 2000, Vol. 36, No. 14, pp. 1187-1188					
<i>Gmt</i>	Dimmick, T.E. et al, "Narrow-band acousto-optic tunable filter fabricated from highly uniform tapered optical fiber", <i>Optical Fiber Communication Conference</i> , 2000, 2000, Vol. 4, pp. 25-27					
<i>Gmt</i>	Russell, P.S.J. et al, "All-Fibre Frequency Shifters, Modulators and Switches", <i>Lasers and Electro-Optics Europe</i> , 1998, 1998, p. 349					
<i>Gmt</i>	Birks, T.A. et al, "Control of bandwidth in fiber acousto-optic tunable filters and other single-mode null coupler devices", <i>Lasers and Electro-Optics</i> , 1997, 1997, Vol. 11, pp. 444-445					
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<i>Gmt</i>	Birks, T.A. et al, "The acousto-optic effect in single-mode fiber tapers and couplers", <i>Journal of Lightwave Technology</i> , Nov. 1996, Vol. 14, No. 11, pp. 2519-2529					
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EXAMINER	<i>B. Healy</i>		DATE CONSIDERED	<i>3/15/03</i>		

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